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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082,382	10/082,382 02/26/2002		Daniel White Sexton	120840	4580	
6147	7590	12/14/2005		EXAMINER		
		RIC COMPANY	TRAN, T	TRAN, THIEN D		
GLOBAL I PATENT I		CH RM. BLDG. K1-4A5	ART UNIT	PAPER NUMBER		
NISKAYU	NA, NY	12309	2665			
				DATE MAILED: 12/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
055 4-45 0	10/082,382	SEXTON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thien D. Tran	2665	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statuf Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired to the second will expire SIX (6) MONTHS from the second ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1)☑ Responsive to communication(s) filed on <u>05 L</u> 2a)☐ This action is FINAL . 2b)☑ Thi 3)☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
 4) Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/a 	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the education of the lead of a by the education is required if the drawing(s) is objection is required if the drawing(s) is objection is required.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)	4) 🔲 Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 02/26/2002	Paper No(s)/Mail Da		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-22 are rejected under 35 U.S.C. 102(e) as being participated by Sivaprakasam (US Patent No. 6785513).

Regarding claims 1, 15, 16, 18, Sivaprakasam discloses a method for communicating a message over a radio frequency (RF) communications network having a plurality of RF channels, the method comprising the steps of:

partitioning the message into a plurality of blocks having a predetermined order; converting the plurality of blocks into a plurality of packets (modulating data into packets for transmitting, figure 3, col.5 lines 50-55);

selecting a subset of the plurality of packets (col.5 lines 50-55);

transmitting the selected subset of the plurality of packets over at least one of the plurality of RF channels of the RF communications network (plurality of carriers or subbands, col.5 lines 50-55);

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receiving the selected subset of the plurality of packets transmitted over the at least one of the plurality of RF channels (col.14 lines 35-50);

estimating a quality of the at least one of the plurality of RF channels from at least the received selected subset of the plurality of packets (col.22 lines 5-10); and constructing an estimate of the message using at least the received selected subset of the plurality of packets and the estimated quality of the at least one of the plurality of RF channels (col.12 lines 15-25).

Regarding claim 2, Sivaprakasam discloses that each of the plurality of packets comprises at least a block number field, a block field and an error control field (col.14 lines 55-67).

Regarding claim 3, Sivaprakasam discloses that the error control field comprises a cyclic redundancy code (col.14 lines 55-67).

Regarding claim 4, Sivaprakasam that the error control field comprises forward error correction coding information (col.14 lines 55-67).

Regarding claims 5, 19, Sivaprakasam discloses that the subset of the plurality of packets comprises selecting the subset of the plurality of packets having a predetermined probability of error-free reception (col.15 lines 55-65).

Regarding claim 6, Sivaprakasam discloses that the selected subset of the plurality of packets uses orthogonal frequency division multiplexing (OFDM) communication techniques (col.16 line 35).

Regarding claim 7, Sivaprakasam discloses that the selected subset of the plurality of packets transmits the selected subset of the plurality of packets using

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communication techniques selected from the groups consisting of Bluetooth communications techniques and IEEE standard 802.11 communications techniques (col.4 lines 25-30).

Regarding claims 8, 14, Sivaprakasam discloses the steps of:

detecting a presence of jamming pulses in at least one of the plurality of RF channels (estimates noise signals, col.12 lines 15-20);

determining characteristics of the jamming pulses in the at least one of the plurality of RF channels wherein the determined characteristics define at least interstices between the jamming pulses (estimating the level of interference, col.7 lines 40-45); and

transmitting the selected subset of the plurality of packets over the at least one of the plurality of RF channels wherein the selected subset of the plurality of packets is transmitted within the interstices of the jamming pulse determined from the step of determining characteristics of the jamming pulses (col.14 lines 35-40).

Regarding claims 9, 20, Sivaprakasam discloses that characteristics comprise at least jamming pulse duration and jamming pulse repetition time (figure 16).

Regarding claims 10, 11, 17, Sivaprakasam discloses that comprises processing the received selected subset of the plurality of packets to yield the plurality of blocks of the message (modulating data into packets for transmitting, figure 3, col.5 lines 50-55).

Regarding claims 12, 21, Sivaprakasam discloses that the selected subset of the plurality of packets uses Bluetooth communications techniques (col.4 lines 25-30).

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Regarding claims 13, 22, Sivaprakasam discloses that the step of transmitting the selected subset of the plurality of packets uses IEEE standard 802.11 communication techniques (col.4 lines 25-30).

Conclusion

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

Patent Examiner

Thien Tran

DUCHO PRIMARY EXAMINER

12-6-05